

Herbicides Approved for Use on WSDOT Rights of Way

When making herbicide applications:

1. Always read and follow product labels
2. Always use personal protective equipment when mixing, loading, and applying

Chemical Name	Product Name	Where Used	How/Why Used	Notes/Recommendations	Restrictions	Cautions
2,4-D	Weedar 64 Amine 4 Veteran 720 Curtail	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Ester and acid formulations of 2,4-D may provide a good alternative to amine formulations	Amine formulations of 2,4-D are restricted for use within 60' of all water	Amine formulations cause irreversible eye damage and are highly toxic to rainbow trout. All 2,4-D products pose risks when applied near grapes and other sensitive crops.
Bromacil	Krovar Hyvar	Zone 1	Nonselective pre-emergent grass and weed control	None	<u>Westside</u> - Restricted for use <u>Eastside</u> - Krovar restricted for use within 60' of all water	Bromacil highly mobile in soil, high potential to leach into ground water
Bromoxynil	Buctril 2EC	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Effective broadleaf weed control without grass seed suppression	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	Highly toxic to fresh water fish
Chlorsulfuron	Telar	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Product highly effective on Canadian thistle and Horse tail	None	None
Clpyralid	Transline Curtail	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Transline is a clpyralid formulation without 2,4-D	Curtail is restricted for use within 60' of all water because of 2,4-D amine content	Curtail contains 2,4-D amine which causes irreversible eye damage and is highly toxic to rainbow trout
Dicamba	Vanquish Veteran 720	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Vanquish is the dicamba formulation without 2,4-D	Veteran 720 is restricted for use within 60' of all water because of 2,4-D amine content	Veteran 720 contains 2,4-D amine which causes irreversible eye damage and is highly toxic to rainbow trout
Dichlobenil	Norosac 4G Casoron	Ornamental planting beds	Pre-emergent weed control in ground cover beds. Post emergent control of grasses.	Highly effective for preemergent control of unwanted weeds in ornamentals	Restricted for use within 60' of all water	Dichlobenil is highly toxic to aquatic insects
Diflufenzopyr	Overdrive	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	None	None	None
Diuron	Karmex Direx 80 DF	Zone 1	Nonselective pre-emergent grass and weed control	Cost effective weed control for Zone 1 in Eastern Washington	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	Highly toxic to fish.
Flumioxazin	Payload	Zone 1	Nonselective pre-emergent grass and weed control	Second year of use in zone 1, still evaluating	Restricted for use within 60' of all salt water	Highly toxic to estuarine invertebrates

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Fluroxypyr	Vista	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	None	None	Highly toxic to Eastern Oyster, high surface runoff potential
Fosamine	Krenite S	Tree and brush control in Zones 2 & 3	Selective broadleaf treatment	Effective broadleaf tree control without visual impacts	None	None
Glyphosate	Roundup Rodeo Aquamaster	Zone 1, spot spray around shrub and tree plantings, aquatic weed control (Rodeo, Aquamaster)	Nonselective weed control	Rodeo and Aquamaster are aquatic versions of Roundup. For in or over water treatments aquatic versions are approved for use with NPDES permit.	None	None
Imazapyr	Arsenal Habitat	Zone 1	Pre and post-emergent non-selective control of all vegetation	Habitat is an aquatic version of Arsenal - good alternative to glyphosate in certain cases	None	High surface runoff potential, high potential to leach into ground water
Isoxaben	Gallery 75DF	Turf & Ornamental	Pre-emergent weed control in ground cover beds	Works well by itself or with Ronstar	Restricted for use within 60' of all water	High surface runoff potential
Metsulfuron-methyl	Escort	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf and conifer treatment	None	None	None
Norflurazon	Predict	Zone 1	Pre-emergent Weed control in Zone 1 and ground cover beds	Good Zone 1 product but difficult to keep in suspension	Restricted for use within 60' of all water	High surface runoff potential
Oryzalin	Oryzalin	Zone 1 Ornamental planting beds	Pre-emergent Weed control in Zone 1 and ground cover beds	Product requires additional rinsing to thoroughly remove residues from empty container	Restricted for use within 60' of all water	Highly toxic to fish
Oxadiazon	Ronstar 50 WSP	Turf & Ornamental	Pre-emergent weed control in ground cover beds	Works well by itself or with Gallery	Restricted for use within 60' of all water, gardens, plants bearing edible fruit	Highly toxic to fish
Pendimethalin	Pendulum	Zone 1 Turf & Ornamental	Nonselective Pre-emergent grass and weed control	None	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	Highly toxic to fish, high potential for loss on eroded soil
Picloram	Tordon	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Highly effective for conifer and broadleaf weed control in Eastern Washington	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	Highly mobile in soil and readily adsorbed through roots of desirable trees
Pyraflufen	Edict	Nuisance and noxious weed control Zones 2 and 3	2,4-D substitute, effective on Kochia, Russian thistle	Effective with Roundup for Kochia control	Restricted for use within 60' of all water	Irreversible eye damage, highly toxic to Rainbow Trout

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Sulfentrazone	Portfolio	Zone 1	Nonselective pre-emergent grass and weed control	New product available for use in 2006	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	High surface runoff potential, high potential to leach into ground water
Sulfometuron-methyl	Oust	Zone 1	Nonselective pre/post emergent grass and weed control	None	None	None
Tebuthiuron	Spike 80DF	Zone 1	Nonselective pre-emergent grass and weed control	None	<u>Westside</u> - Restricted for use <u>Eastside</u> - Restricted for use within 60' of all water	High surface runoff potential. High potential to leach into ground water
Triclopyr Amine	Garlon 3A	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	None	None	Irreversible eye damage
Triclopyr Ester Crossbow	Garlon 4	Nuisance and noxious weed control Zones 2 and 3	Selective broadleaf treatment	Works well for invert applications	Restricted for use within 60' of all water	Highly toxic to fish